



SEQUENCE LISTING

<110> Lin, Daniel Chi-Hong
Zhao, Jiagang
Chen, Jin-Long
Cutler, Gene
Tularik Inc.

<120> Novel Receptors

<130> 018781-006210US

<140> US 09/891,138

<141> 2001-06-25

<150> US 60/213,461

<151> 2000-06-23

<160> 26

<170> PatentIn Ver. 2.1

<210> 1

<211> 1543

<212> DNA

<213> *Mus musculus*

<220>

<221> CDS

<222> (44) . . (997)

<223> mouse TGR18 G-protein coupled receptor (GPCR)

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<210> 4

<211> 434

<212> PRT

<213> Homo sapiens

<220>

<223> human TGR21 G-protein coupled receptor (GPCR)

<400> 4

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1 5 10 15
Ser Val Pro Ile Leu Leu Gly Trp Gly Leu Asn Leu Thr Leu Gly Gln
20 25 30
Gly Ala Pro Ala Ser Gly Pro Pro Ser Arg Arg Val Arg Leu Val Phe
35 40 45
Leu Gly Val Ile Leu Val Val Ala Val Ala Gly Asn Thr Thr Val Leu
50 55 60
Cys Arg Leu Cys Gly Gly Gly Pro Trp Ala Gly Pro Lys Arg Arg
65 70 75 80
Lys Met Asp Phe Leu Leu Val Gln Leu Ala Leu Asp Leu Tyr Ala
85 90 95
Cys Gly Gly Thr Ala Leu Ser Gln Leu Ala Trp Glu Leu Leu Gly Glu
100 105 110
Pro Arg Ala Ala Thr Gly Asp Leu Ala Cys Arg Phe Leu Gln Leu Leu
115 120 125
Gln Ala Ser Gly Arg Gly Ala Ser Ala His Leu Val Val Leu Ile Ala
130 135 140
Leu Glu Arg Arg Arg Ala Val Arg Leu Pro His Gly Arg Pro Leu Pro
145 150 155 160
Ala Arg Ala Leu Ala Ala Leu Gly Trp Leu Leu Ala Leu Leu Leu Ala
165 170 175
Leu Pro Pro Ala Phe Val Val Arg Gly Asp Ser Pro Ser Pro Leu Pro
180 185 190
Pro Pro Pro Pro Pro Thr Ser Leu Gln Pro Gly Ala Pro Pro Ala Ala
195 200 205

a2
cont'

Arg Ala Trp Pro Gly Glu Arg Arg Cys His Gly Ile Phe Ala Pro Leu
 210 215 220
 Pro Arg Trp His Leu Gln Val Tyr Ala Phe Tyr Glu Ala Val Ala Gly
 225 230 235 240
 Phe Val Ala Pro Val Thr Val Leu Gly Val Ala Cys Gly His Leu Leu
 245 250 255
 Ser Val Trp Trp Arg His Arg Pro Gln Ala Pro Ala Ala Ala Pro
 260 265 270
 Trp Ser Ala Ser Pro Gly Arg Ala Pro Ala Pro Ser Ala Leu Pro Arg
 275 280 285
 Ala Lys Val Gln Ser Leu Lys Met Ser Leu Leu Leu Ala Leu Leu Phe
 290 295 300
 Val Gly Cys Glu Leu Pro Tyr Phe Ala Ala Arg Leu Ala Ala Ala Trp
 305 310 315 320
 Ser Ser Gly Pro Ala Gly Asp Trp Glu Gly Glu Gly Leu Ser Ala Ala
 325 330 335
 Leu Arg Val Val Ala Met Ala Asn Ser Ala Leu Asn Pro Phe Val Tyr
 340 345 350
 Leu Phe Phe Gln Ala Gly Asp Cys Arg Leu Arg Arg Gln Leu Arg Lys
 355 360 365
 Arg Leu Gly Ser Leu Cys Cys Ala Pro Gln Gly Ala Glu Asp Glu
 370 375 380
 Glu Gly Pro Arg Gly His Gln Ala Leu Tyr Arg Gln Arg Trp Pro His
 385 390 395 400
 Pro His Tyr His His Ala Arg Arg Glu Pro Leu Asp Glu Gly Leu
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 Arg Pro Pro Pro Pro Arg Pro Arg Pro Leu Pro Cys Ser Cys Glu Ser
 420 425 430

Ala Phe
<210> 5
<211> 1266
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (25)..(1197)
<223> human TGR62 G-protein coupled receptor (GPCR)

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 aatgttttgg tcattttagc ttttgggtg gacaaaaacc ttagacatcg aagttagtt 180
 ttttttctta acttggccat ctctgactc tttgtgggtg tgatctccat tccttggta 240
 atccctcaca cgctgttgcg atgggattt gggaaaggaaa tctgtgtatt ttggctact 300
 actgactatc tggatgtac agcatctgtataa acatttgc tcctcatcag ctatgtatcg 360
 tacctgtcag tctcaaatgc tggatgtttt agaataacaa atactgggtt cttgaagatt 420
 gttactctga tggggccgt tgggtgtcg gccttcttag tgaatggggc aatgattctt 480
 gtttcagagt ctggaaagg tgaaggtagt gaatgtgaac ctggatttt ttggaaatgg 540
 tacatccttgc ccatcacatc attcttggaa ttcgtgtatcc cagtcattttt agtcgtttt 600
 ttcaacatgatattttatgg gggcctgtgg aagctgtatcc atctcgtatcc gtgcggaaatgg 660
 catcctggatc tgactgtgt ctcttccaaac atctgtggac actcatttgc aggttagacta 720
 tcttcaagga gatcttttc tgcatcgaca gaagttcctg catccttca ttccggaaatgg 780
 cagaggagaa agatgtgtct catgtttcc tcaagaacca agatgtatcc caatataattt 840
 gcttccaaaa tgggttccctt ctcccaatca gattctgttag ctcttcacca aaggaaacat 900
 gttgaactgc tttagagccag gagatttagcc aagtactgg ccattcttcc aggggtttt 960
 gctgtttgttgc gggctccata ttctctgttc acaatgttcc ttcatatcc ttccggaaatgg 1020
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ttttgtataa aaaagcaacc tctaccatca caacacagtc ggtcagtatc ttcttaaaga 1200
caatttctc acctctgtaa attttagtct caatctcacc taaatgaatc aggtctgccc 1260
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<210> 6
<211> 390
<212> PRT
<213> Homo sapiens

<220>
<223> human TGR62 G-protein coupled receptor (GPCR)

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Thr Leu Ala Phe Phe Met Ser Leu Val Ala Phe Ala Ile Met Leu Gly
20 25 30
Asn Ala Leu Val Ile Leu Ala Phe Val Val Asp Lys Asn Leu Arg His
35 40 45
Arg Ser Ser Tyr Phe Phe Leu Asn Leu Ala Ile Ser Asp Phe Phe Val
50 55 60
Gly Val Ile Ser Ile Pro Leu Tyr Ile Pro His Thr Leu Phe Glu Trp
65 70 75 80
Asp Phe Gly Lys Glu Ile Cys Val Phe Trp Leu Thr Thr Asp Tyr Leu
85 90 95
Leu Cys Thr Ala Ser Val Tyr Asn Ile Val Leu Ile Ser Tyr Asp Arg
100 105 110
Tyr Leu Ser Val Ser Asn Ala Val Ser Tyr Arg Thr Gln His Thr Gly
115 120 125
Val Leu Lys Ile Val Thr Leu Met Val Ala Val Trp Val Leu Ala Phe
130 135 140
Leu Val Asn Gly Pro Met Ile Leu Val Ser Glu Ser Trp Lys Asp Glu
145 150 155 160
Gly Ser Glu Cys Glu Pro Gly Phe Phe Ser Glu Trp Tyr Ile Leu Ala
165 170 175
Ile Thr Ser Phe Leu Glu Phe Val Ile Pro Val Ile Leu Val Ala Tyr
180 185 190
Phe Asn Met Asn Ile Tyr Trp Ser Leu Trp Lys Arg Asp His Leu Ser
195 200 205
Arg Cys Gln Ser His Pro Gly Leu Thr Ala Val Ser Ser Asn Ile Cys
210 215 220
Gly His Ser Phe Arg Gly Arg Leu Ser Ser Arg Arg Ser Leu Ser Ala
225 230 235 240
Ser Thr Glu Val Pro Ala Ser Phe His Ser Glu Arg Gln Arg Arg Lys
245 250 255
Ser Ser Leu Met Phe Ser Ser Arg Thr Lys Met Asn Ser Asn Thr Ile
260 265 270
Ala Ser Lys Met Gly Ser Phe Ser Gln Ser Asp Ser Val Ala Leu His
275 280 285
Gln Arg Glu His Val Glu Leu Leu Arg Ala Arg Arg Leu Ala Lys Ser
290 295 300
Leu Ala Ile Leu Leu Gly Val Phe Ala Val Cys Trp Ala Pro Tyr Ser
305 310 315 320
Leu Phe Thr Ile Val Leu Ser Phe Tyr Ser Ser Ala Thr Gly Pro Lys
325 330 335
Ser Val Trp Tyr Arg Ile Ala Phe Trp Leu Gln Trp Phe Asn Ser Phe
340 345 350
Val Asn Pro Leu Leu Tyr Pro Leu Cys His Lys Arg Phe Gln Lys Ala
355 360 365

2
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Ser Asn Cys Ala Arg Arg Ala Pro Gly Pro Pro Ser Asp Thr Phe Val
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 Phe Asn Leu Ala Leu Ala Asp Leu Gly Leu Ala Leu Thr Leu Pro Phe
 85 90 95
 Trp Ala Ala Glu Ser Ala Leu Asp Phe His Trp Pro Phe Gly Gly Ala
 100 105 110
 Leu Cys Lys Met Val Leu Thr Ala Thr Val Leu Asn Val Tyr Ala Ser
 115 120 125
 Ile Phe Leu Ile Thr Ala Leu Ser Val Ala Arg Tyr Trp Val Val Ala
 130 135 140
 Met Ala Ala Gly Pro Gly Thr His Leu Ser Leu Phe Trp Ala Arg Ile
 145 150 155 160
 Ala Thr Leu Ala Val Trp Ala Ala Ala Leu Val Thr Val Pro Thr
 165 170 175
 Ala Val Phe Gly Val Glu Gly Glu Val Cys Gly Val Arg Leu Cys Leu
 180 185 190
 Leu Arg Phe Pro Ser Arg Tyr Trp Leu Gly Ala Tyr Gln Leu Gln Arg
 195 200 205
 Val Val Leu Ala Phe Met Val Pro Leu Gly Val Ile Thr Thr Ser Tyr
 210 215 220
 Leu Leu Leu Ala Phe Leu Gln Arg Arg Gln Arg Arg Arg Gln Asp
 225 230 235 240
 Ser Arg Val Val Ala Arg Ser Val Arg Ile Leu Val Ala Ser Phe Phe
 245 250 255
 Leu Cys Trp Phe Pro Asn His Val Val Thr Leu Trp Gly Val Leu Val
 260 265 270
 Lys Phe Asp Leu Val Pro Trp Asn Ser Thr Phe Tyr Thr Ile Gln Thr
 275 280 285
 Tyr Val Phe Pro Val Thr Thr Cys Leu Ala His Ser Asn Ser Cys Leu
 290 295 300
 Asn Pro Val Leu Tyr Cys Leu Leu Arg Arg Glu Pro Arg Gln Ala Leu
 305 310 315 320
 Ala Gly Thr Phe Arg Asp Leu Arg Ser Arg Leu Trp Pro Gln Gly
 325 330 335
 Gly Trp Val Gln Gln Val Ala Leu Lys Gln Val Gly Arg Arg Trp Val
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 Ala Ser Asn Pro Arg Glu Ser Arg Pro Ser Thr Leu Leu Thr Asn Leu
 355 360 365
 Asp Arg Gly Thr Pro Gly
 370

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<210> 9
 <211> 1465
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (93)..(1217)
 <223> human TGR130.2 G-protein coupled receptor (GPCR)

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 gaggtgcccct ctgcaagatg gttctgacgg ccactgtcct caacgtctat gcccacatct 480

tcctcatcac agcgctgagc gttgctcgct actgggtggc ggccatggct gcggggccag 540
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 gaaaaagtct gatctttgtat ccccaactct ggggtgggtg aatggggag gcccggctc 1380
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<210> 10
 <211> 374
 <212> PRT
 <213> Homo sapiens

<220>
 <223> human TGR130.2 G-protein coupled receptor (GPCR)

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 20 25 30
 Val Lys Phe Leu Ala Leu Arg Leu Met Val Ala Leu Ala Tyr Gly Leu
 35 40 45
 Val Gly Ala Ile Gly Leu Leu Gly Asn Leu Ala Val Leu Trp Val Leu
 50 55 60
 Ser Asn Cys Ala Arg Arg Ala Pro Gly Pro Pro Ser Asp Thr Phe Val
 65 70 75 80
 Phe Asn Leu Ala Leu Ala Asp Leu Gly Leu Ala Leu Thr Leu Pro Phe
 85 90 95
 Trp Ala Ala Glu Ser Ala Leu Asp Phe His Trp Pro Phe Gly Gly Ala
 100 105 110
 Leu Cys Lys Met Val Leu Thr Ala Thr Val Leu Asn Val Tyr Ala Ser
 115 120 125
 Ile Phe Leu Ile Thr Ala Leu Ser Val Ala Arg Tyr Trp Val Val Ala
 130 135 140
 Met Ala Ala Gly Pro Gly Thr His Leu Ser Leu Phe Trp Ala Arg Ile
 145 150 155 160
 Ala Thr Leu Ala Val Trp Ala Ala Ala Leu Val Thr Val Pro Thr
 165 170 175
 Ala Val Phe Gly Val Glu Gly Glu Val Cys Gly Val Arg Leu Cys Leu
 180 185 190
 Leu Arg Phe Pro Ser Arg Tyr Trp Leu Gly Ala Tyr Gln Leu Gln Arg
 195 200 205
 Val Val Leu Ala Phe Met Val Pro Leu Gly Val Ile Thr Thr Ser Tyr
 210 215 220
 Leu Leu Leu Ala Phe Leu Gln Arg Arg Gln Arg Arg Arg Gln Asp
 225 230 235 240
 Ser Arg Val Val Ala Arg Ser Val Arg Ile Leu Val Ala Ser Phe Phe
 245 250 255

2
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Leu Cys Trp Phe Pro Asn His Val Val Thr Leu Trp Gly Val Leu Val
 260 265 270
 Lys Phe Asp Leu Val Pro Trp Asn Ser Thr Phe Tyr Thr Ile Gln Thr
 275 280 285
 Tyr Val Phe Pro Val Thr Thr Cys Leu Ala His Ser Asn Ser Cys Leu
 290 295 300
 Asn Pro Val Leu Tyr Cys Leu Leu Arg Arg Glu Pro Arg Gln Ala Leu
 305 310 315 320
 Ala Gly Thr Phe Arg Asp Leu Arg Leu Arg Leu Trp Pro Gln Gly Gly
 325 330 335
 Gly Trp Val Gln Gln Val Ala Leu Lys Gln Val Gly Arg Arg Trp Val
 340 345 350
 Ala Ser Asn Pro Arg Glu Ser Arg Pro Ser Thr Leu Leu Thr Asn Leu
 355 360 365
 Asp Arg Gly Thr Pro Gly
 370

<210> 11
 <211> 1356
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)..(1356)
 <223> human TGR213 G-protein coupled receptor (GPCR)

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 tcggaatctg tgccctctt cttcatgtc ctgctggact tgactgtgt ggctggcaat 180
 gcccgtgtga tgccgtgat cgcacacg cctgcctcc gaaaattttt ctgcgtcttc 240
 cacctctgcc tggtgaccc gctggctgcc ctgaccctca tgcccttggc catgctctcc 300
 agctctgccc tctttgacca cgcgcctttt ggggagggtgg cctgcgcctt ctacttgc 360
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 tactattacg tagtccaccc catgcgtac gaggtgcgc tgacgctggg gctggtgcc 480
 tctgtgtgg tgggtgtgtg ggtgaaggcc ttggccatgg ctgtgtgcc agtgttggg 540
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 cacagtgcct actgccagct ttttgtgtg gtccttgc tgctttactt tctgttgccc 660
 ctgctctca tacttgtgtg ctactgcagc atgtcccgag tggccgcgt ggctgcctatg 720
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 agccgcctca cgtatggtcac cagctcggtt gccccccaga ccacccacaca ccgcacgttt 840
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 <210> 12
 <211> 451
 <212> PRT
 <213> Homo sapiens

<220>
 <223> human TGR213 G-protein coupled receptor (GPCR)

<400> 12

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20 25 30
Glu Val Gly Leu Arg Asp Val Ala Ser Glu Ser Val Ala Leu Phe Phe
35 40 45
Met Leu Leu Leu Asp Leu Thr Ala Val Ala Gly Asn Ala Ala Val Met
50 55 60
Ala Val Ile Ala Lys Thr Pro Ala Leu Arg Lys Phe Val Phe Val Phe
65 70 75 80
His Leu Cys Leu Val Asp Leu Leu Ala Ala Leu Thr Leu Met Pro Leu
85 90 95
Ala Met Leu Ser Ser Ser Ala Leu Phe Asp His Ala Leu Phe Gly Glu
100 105 110
Val Ala Cys Arg Leu Tyr Leu Phe Leu Ser Val Cys Phe Val Ser Leu
115 120 125
Ala Ile Leu Ser Val Ser Ala Ile Asn Val Glu Arg Tyr Tyr Tyr Val
130 135 140
Val His Pro Met Arg Tyr Glu Val Arg Met Thr Leu Gly Leu Val Ala
145 150 155 160
Ser Val Leu Val Gly Val Trp Val Lys Ala Leu Ala Met Ala Ser Val
165 170 175
Pro Val Leu Gly Arg Val Ser Trp Glu Glu Gly Ala Pro Ser Val Pro
180 185 190
Pro Gly Cys Ser Leu Gln Trp Ser His Ser Ala Tyr Cys Gln Leu Phe
195 200 205
Val Val Val Phe Ala Val Leu Tyr Phe Leu Leu Pro Leu Leu Ile
210 215 220
Leu Val Val Tyr Cys Ser Met Phe Arg Val Ala Arg Val Ala Ala Met
225 230 235 240
Gln His Gly Pro Leu Pro Thr Trp Met Glu Thr Pro Arg Gln Arg Ser
245 250 255
Glu Ser Leu Ser Ser Arg Ser Thr Met Val Thr Ser Ser Gly Ala Pro
260 265 270
Gln Thr Thr Pro His Arg Thr Phe Gly Gly Lys Ala Ala Val Val
275 280 285
Leu Leu Ala Val Gly Gly Gln Phe Leu Leu Cys Trp Leu Pro Tyr Phe
290 295 300
Ser Phe His Leu Tyr Val Ala Leu Ser Ala Gln Pro Ile Ser Thr Gly
305 310 315 320
Gln Val Glu Ser Val Val Thr Trp Ile Gly Tyr Phe Cys Phe Thr Ser
325 330 335
Asn Pro Phe Phe Tyr Gly Cys Leu Asn Arg Gln Ile Arg Gly Glu Leu
340 345 350
Ser Lys Gln Phe Val Cys Phe Phe Lys Pro Ala Pro Glu Glu Glu Leu
355 360 365
Arg Leu Pro Ser Arg Glu Gly Ser Ile Glu Glu Asn Phe Leu Gln Phe
370 375 380
Leu Gln Gly Thr Gly Cys Pro Ser Glu Ser Trp Val Ser Arg Pro Leu
385 390 395 400
Pro Ser Pro Lys Gln Glu Pro Pro Ala Val Asp Phe Arg Ile Pro Gly
405 410 415
Gln Ile Ala Glu Glu Thr Ser Glu Phe Leu Glu Gln Gln Leu Thr Ser
420 425 430
Asp Ile Ile Met Ser Asp Ser Tyr Leu Arg Pro Ala Ala Ser Pro Arg
435 440 445
Leu Glu Ser
450

2
cont

<210> 13
<211> 1197
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (1)...(1197)
<223> human EDG (hEDG) receptor G-protein coupled receptor (GPCR)

<400> 13
atggagtcgg ggctgctgcg gccggcgccg gtgagcgagg tcatcgcttgc gcattacaac 60
tacaccggca agctccgcgg tgcgcgtac cagccgggtg cccgcgtcg cccgacgccc 120
gtggtgtgccc tggcggtgtg cgccttcatac gtgctagaga atctagccgt gtttgtggtg 180
ctcggacgccc acccgcgctt ccacgcgtccc atgttcgtc tcctggcag cctcacgttg 240
tcggatctgc tggcaggcgc cgcctacgccc gccaacatcc tactgtcggg gccgctcagc 300
ctgaaaactgt ccccccgcgt ctgggtcgca cgggagggag gcgtcttcgt ggcactcact 360
gcgtccgtgc tgagccttgc ggcacatcgca ctggagcgca gcctcaccat ggcgcccagg 420
ggggccgcgc cgcgtccag tcggggcgc acgctggcga tggcagccgc ggcctggggc 480
gtgtcgctgc tcctcggtgt cctgcacgc ctgggctggaa attgcctggg tcgcctggac 540
gcttgcctca ctgtcttgc gctctacgccc aaggcctacg tgctcttcgt cgtgcgtcgc 600
ttcgtgggca tcctggccgc tatctgtgca ctctacgccc gcacatctactg ccaggtacgc 660
gccaacgcgc ggcgcctgc ggcacggccc gggactgcgg ggaccaccc gaccggggc 720
cgtcgaagc cgcgtctcgct ggccttgc cgcacgcgtca gcgtgggtgt cctggcctt 780
gtggcatgtt gggggccccc ttccctgtc ctgttgcgt acgtggcgtg cccggcgcgc 840
acctgtcttg tactctcgca ggccgatccc ttccctggac tggccatggc caactcactt 900
ctgaacccca tcacatctacac gtcaccaac cgcgacactgc gccacgcgt cctgcgcctg 960
gtctgtcgca gacgccactc ctgcggcaga gacccgagtg gctcccaagca gtcggcgagc 1020
gcccgtgagg ctccggggg cctgcggcgc tgcctggccc cgggccttga tgggagcttc 1080
agcggctcgag acgcgtcato gccccagcgc gacccggctgg acaccagcgg ctccacaggc 1140
agcccccgtg caccacagc cgcggact ctggtatcag aaccggctgc agactga 1197

<210> 14
<211> 398
<212> PRT
<213> Homo sapiens

<220>
<223> human EDG (hEDG) receptor G-protein coupled receptor (GPCR)

<400> 14
Met Glu Ser Gly Leu Leu Arg Pro Ala Pro Val Ser Glu Val Ile Val
1 5 10 15
Leu His Tyr Asn Tyr Thr Gly Lys Leu Arg Gly Ala Arg Tyr Gln Pro
20 25 30
Gly Ala Gly Leu Arg Ala Asp Ala Val Val Cys Leu Ala Val Cys Ala
35 40 45
Phe Ile Val Leu Glu Asn Leu Ala Val Leu Leu Val Leu Gly Arg His
50 55 60
Pro Arg Phe His Ala Pro Met Phe Leu Leu Leu Gly Ser Leu Thr Leu
65 70 75 80
Ser Asp Leu Leu Ala Gly Ala Ala Tyr Ala Ala Asn Ile Leu Leu Ser
85 90 95
Gly Pro Leu Thr Leu Lys Leu Ser Pro Ala Leu Trp Phe Ala Arg Glu
100 105 110
Gly Gly Val Phe Val Ala Leu Thr Ala Ser Val Leu Ser Leu Leu Ala
115 120 125
Ile Ala Leu Glu Arg Ser Leu Thr Met Ala Arg Arg Gly Pro Ala Pro
130 135 140

*a²
cont*

Val Ser Ser Arg Gly Arg Thr Leu Ala Met Ala Ala Ala Ala Trp Gly
 145 150 155 160
 Val Ser Leu Leu Leu Gly Leu Leu Pro Ala Leu Gly Trp Asn Cys Leu
 165 170 175
 Gly Arg Leu Asp Ala Cys Ser Thr Val Leu Pro Leu Tyr Ala Lys Ala
 180 185 190
 Tyr Val Leu Phe Cys Val Leu Ala Phe Val Gly Ile Leu Ala Ala Ile
 195 200 205
 Cys Ala Leu Tyr Ala Arg Ile Tyr Cys Gln Val Arg Ala Asn Ala Arg
 210 215 220
 Arg Leu Pro Ala Arg Pro Gly Thr Ala Gly Thr Thr Ser Thr Arg Ala
 225 230 235 240
 Arg Arg Lys Pro Arg Ser Leu Ala Leu Leu Arg Thr Leu Ser Val Val
 245 250 255
 Leu Leu Ala Phe Val Ala Cys Trp Gly Pro Leu Phe Leu Leu Leu
 260 265 270
 Leu Asp Val Ala Cys Pro Ala Arg Thr Cys Pro Val Leu Leu Gln Ala
 275 280 285
 Asp Pro Phe Leu Gly Leu Ala Met Ala Asn Ser Leu Leu Asn Pro Ile
 290 295 300
 Ile Tyr Thr Leu Thr Asn Arg Asp Leu Arg His Ala Leu Leu Arg Leu
 305 310 315 320
 Val Cys Cys Gly Arg His Ser Cys Gly Arg Asp Pro Ser Gly Ser Gln
 325 330 335
 Gln Ser Ala Ser Ala Ala Glu Ala Ser Gly Gly Leu Arg Arg Cys Leu
 340 345 350
 Pro Pro Gly Leu Asp Gly Ser Phe Ser Gly Ser Glu Arg Ser Ser Pro
 355 360 365
 Gln Arg Asp Gly Leu Asp Thr Ser Gly Ser Thr Gly Ser Pro Gly Ala
 370 375 380
 Pro Thr Ala Ala Arg Thr Leu Val Ser Glu Pro Ala Ala Asp
 385 390 395

<210> 15
 <211> 1152
 <212> DNA
 <213> Homo sapiens

2
a
cont

<220>
 <221> CDS
 <222> (1)..(1152)
 <223> human TGR92 G-protein coupled receptor (GPCR)

<400> 15
 atggaaacctc ataacctgag ctctccatct ccctctctct ctcctctgt tctccctccc 60
 tccttctctc cctcaccctc ctctgctccc tctgcctta ccactgtggg ggggtcctct 120
 ggagggccct gccaccccac ctcttcctcg ctggtgtctg ctttcctggc accaattctg 180
 gccctggagt ttgtcctggg cctgggtggg aacagtttg cccttccat cttctgcata 240
 cacacgcggc cctggacctc caacacggtg ttctggtaa gcttgggtgc cgctgactc 300
 ctcctgatca gcaacctgcc ctccgcgtg gactactacc tcctccatga gacctggcgc 360
 tttggggctg ctgcctgca agtcaacctc ttcatgctgt ccaccaaccg cacggccagc 420
 gttgtcttcc tcacagccat cgcaactcaac cgctacactga aggtgggtca gccccaccac 480
 gtgctgagcc gtgcttccgt gggggcagct gcccgggtgg cgggggact ctgggtggc 540
 atcctgtcc tcaacggca cctgctctg agcacctct ccggccctc ctgcctcagc 600
 tacagggtgg gcacgaagcc ctgcggctcg ctccgctggc accaggcaact gtacctgctg 660
 gagttttcc tgccactggc gtcatcctc tttgttattg tgagcattgg gtcaccatc 720
 cggAACGTC gtctggcgg gcaggcaggc cccagaggg ccatgcgtgt gctggccatg 780
 gtgggtggccg tctacaccat ctgcttctg cccagcatca tctttggcat ggcttccatg 840
 gtggcttctt ggtgtccgc ctggccatcc ctggacactc gcacacagct cttccatggc 900
 tccctggccct tcacacttccat caacagtgtc ctggaccccg tgctctactg cttctctagc 960

cccaacttcc tccaccagag ccgggccttg ctgggcctca cgcggggccg gcagggccca 1020
gtgagcgacg agagctccta ccaaccctcc aggcagtggc gctaccggga ggctcttagg 1080
aaggccgagg ccatagggaa gctgaaagtg cagggcgagg tctctctgga aaaggaaggc 1140
tcctcccagg gc 1152

<210> 16
<211> 384
<212> PRT
<213> Homo sapiens

<220>
<223> human TGR92 G-protein coupled receptor (GPCR)

<400> 16
Met Glu Leu His Asn Leu Ser Ser Pro Ser Pro Ser Leu Ser Ser Ser
1 5 10 15
Val Leu Pro Pro Ser Phe Ser Pro Ser Pro Ser Ala Pro Ser Ala
20 25 30
Phe Thr Thr Val Gly Gly Ser Ser Gly Gly Pro Cys His Pro Thr Ser
35 40 45
Ser Ser Leu Val Ser Ala Phe Leu Ala Pro Ile Leu Ala Leu Glu Phe
50 55 60
Val Leu Gly Leu Val Gly Asn Ser Leu Ala Leu Phe Ile Phe Cys Ile
65 70 75 80
His Thr Arg Pro Trp Thr Ser Asn Thr Val Phe Leu Val Ser Leu Val
85 90 95
Ala Ala Asp Phe Leu Leu Ile Ser Asn Leu Pro Leu Arg Val Asp Tyr
100 105 110
Tyr Leu Leu His Glu Thr Trp Arg Phe Gly Ala Ala Ala Cys Lys Val
115 120 125
Asn Leu Phe Met Leu Ser Thr Asn Arg Thr Ala Ser Val Val Phe Leu
130 135 140
Thr Ala Ile Ala Leu Asn Arg Tyr Leu Lys Val Val Gln Pro His His
145 150 155 160
Val Leu Ser Arg Ala Ser Val Gly Ala Ala Ala Arg Val Ala Gly Gly
165 170 175
Leu Trp Val Gly Ile Leu Leu Leu Asn Gly His Leu Leu Leu Ser Thr
180 185 190
Phe Ser Gly Pro Ser Cys Leu Ser Tyr Arg Val Gly Thr Lys Pro Ser
195 200 205
Ala Ser Leu Arg Trp His Gln Ala Leu Tyr Leu Leu Glu Phe Phe Leu
210 215 220
Pro Leu Ala Leu Ile Leu Phe Ala Ile Val Ser Ile Gly Leu Thr Ile
225 230 235 240
Arg Asn Arg Gly Leu Gly Gly Gln Ala Gly Pro Gln Arg Ala Met Arg
245 250 255
Val Leu Ala Met Val Val Ala Val Tyr Thr Ile Cys Phe Leu Pro Ser
260 265 270
Ile Ile Phe Gly Met Ala Ser Met Val Ala Phe Trp Leu Ser Ala Cys
275 280 285
Arg Ser Leu Asp Leu Cys Thr Gln Leu Phe His Gly Ser Leu Ala Phe
290 295 300
Thr Tyr Leu Asn Ser Val Leu Asp Pro Val Leu Tyr Cys Phe Ser Ser
305 310 315 320
Pro Asn Phe Leu His Gln Ser Arg Ala Leu Leu Gly Leu Thr Arg Gly
325 330 335
Arg Gln Gly Pro Val Ser Asp Glu Ser Ser Tyr Gln Pro Ser Arg Gln
340 345 350
Trp Arg Tyr Arg Glu Ala Ser Arg Lys Ala Glu Ala Ile Gly Lys Leu
355 360 365

a2
cont

Lys Val Gln Gly Glu Val Ser Leu Glu Lys Glu Gly Ser Ser Gln Gly
370 375 380

<210> 17
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:mouse TGR18
gene specific primer oligo for 5' RACE (Rapid
Amplification of cDNA ends)

<400> 17
ggtagaactt ctaaggcac taaggccag 30

<210> 18
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:mouse TGR18
nested gene specific primer oligo for 5' RACE
(Rapid Amplification of cDNA ends)

<400> 18
aagttctcg acagggtact tcatgacgag 30

<210> 19
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:mouse TGR18
gene specific primer oligo for 3' RACE (Rapid
Amplification of cDNA ends)

<400> 19
ccatctctga ctttgctttc ctgtgcaccc 30

a²
cont

<210> 20
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:mouse TGR18
nested gene specific primer oligo for 3' RACE
(Rapid Amplification of cDNA ends)

<400> 20
gcaaccgata tgtgcttcac accaacctc 29

<210> 21
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:human TGR130.1
gene specific primer oligo for 5' RACE (Rapid
Amplification of cDNA ends)

<400> 21
gagagtgacc acatgggtgg gaaaccaggc 29

<210> 22
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:human TGR130.1
nested gene specific primer oligo for 5' RACE
(Rapid Amplification of cDNA ends)

<400> 22
gccagcacca ccctctgcag ctggta 26

<210> 23
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:human TGR130.1
gene specific primer oligo for 3' RACE (Rapid
Amplification of cDNA ends)

<400> 23
ccttcagaca ccttcgtctt caacctggc 29

a2
cont
<210> 24
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:human TGR130.1
nested gene specific primer oligo for 3' RACE
(Rapid Amplification of cDNA ends)

<400> 24
gcagccgagt cggcactggc ctttcac 27

<210> 25
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer
oligonucleotide for PCR amplification of human
TGR62

<400> 25
tgacccttctt catcatttga tgtg

24

A2
<210> 26
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer
oligonucleotide for PCR amplification of human
TGR62

<400> 26
gataaaagggc agacctgatt ca

22